BRUHAT BENGALURU MAHANAGARA PALIKE

YELAHANKA ZONE

NAME OF WORK : IMPROVEMENTS TO ROADS AND DRAINS AT MARUTHINAGARA 23rd CROSS ROADS AND SURROUNDING AREAS IN WARD NO.01 OF YELAHANKA SUB DIVISION

								Estimate Cost Rs.	10.05	Lakhs
Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
1	KSRB 2-1.1 : Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface leveled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1 (a) / 2.3.1 (P 5/I.2.1)KPWD S.R 2016-17									
	Maruthinagara	Cum								
	Cross Roads of 23rd cross		1	20.00	3.50	0.20	14.00			
			1	20.00	3.50	0.25	17.50			
			1	20.00	3.00	0.20	12.00			
			1	20.00	3.50	0.20	14.00			
					Total Qty		**57.50**	184.73	**10621.76**	
	Basic Rate	157.00								
	AD-HOC 11%	17.27								
	Sub-Total	174.27								
	Area Weightage @ 6%	10.46								
	Total	**184.73**								
	KSRB 2-2.1 : Earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No.5/Item No. 2.3)KPWD S.R 2016-17									
		Cum								
	for Drain		1	67.00	0.80	0.90	48.24			
					Total Qty		**48.24**	222.38	**10727.49**	
	Basic Rate	189.00								
	AD-HOC 11%	20.79								
	Sub-Total	209.79								
	Area Weightage @ 6%	12.59								
	Total	**222.38**								
	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregate /sand/kaner/ Moorum KSRRB M100-1 Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications MORTH -100/ Chapter 1 (Page No.133/ Item No 17.1)									
		Cum								
					Qty Vide Item No.1+2		**105.74**	111.00	**11737.14**	
	Average Weight of Earth 1.28 Tonne/Km									
	Basic Rate Lead Charges for 10.00 Kms (2.50X1.28X10.00)	32.00								

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
	Add loading and unloading Item No 17.1)	68.00							
	Sub-Total	100.00							
	AD-HOC 11%	11.00							
	Total	**111.00**							
4	KSRB 4-1.3: Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No.KBS 4.1, 4.2 (P.12/I.4.3)								
	for Road	Cum							
	Cross Roads of 23rd cross		1	20.00	3.50	0.15	10.50		
			1	20.00	3.50	0.15	10.50		
			1	20.00	3.00	0.15	9.00		
			1	20.00	3.50	0.15	10.50		
	for Drain		1	67.00	0.80	0.15	8.04		
					Total Qty		**48.54**	5834.56	**283209.52**
	Basic Rate	4867.00							
	AD-HOC 11%	535.37							
	Sub-Total	5402.37							
	Area Weightage @ 6%	432.19							
	Total	**5834.56**							
	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC cement at 300kgs. with 20mm and down size granite metal coarse aggregates at 0.69cum and fine aggregates at 0.43cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No.1500, 1700, 2200. -do- Wall and bottom thickness 15cm (P.No.265 / It.No.37.59.2)								
		Cum							
	bed		1	67.00	0.80	0.15	8.04		
	side wall		2	67.00	0.15	0.60	12.06		
					Total Qty		**20.10**	12246.05	**246145.66**
	Basic Rate	10408.00							
	AD-HOC 11%	1144.88							
	Sub-Total	11552.88							
	Area Weightage @ 6%	693.17							
	Total	**12246.05**							
	KSRB 4.9.2:Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3-do-TMT Bars Fe 500 P.17/It.No.4.46.2 (rates effects from 01-07-2017)								
		tonne							

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
		50% of Qty Vide item No.5				in Qtl	10.050		
						in tonne	1.005	71310.20	71666.75
	Basic Rate	60607.00							
	AD-HOC 11%	6666.77							
	Sub-Total	67273.77							
	Area Weightage @ 6%	4036.43							
	Total	**71310.20**							
7	KSRRB M600-6. Cement concrete pavement. Construction Un- reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 with 25mm and size graded granite metal , coarse and fine aggregate with superplastisiser @ 3lts conforming to IS9103-1999 Reaffirmed-2008, mixed in a concrete mixer of not less than 0.6cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved curing compound, finishing to lines and grades as per drawing complete as per specifications.(P.No.174 / It.No.22.6.2)									
		Cum							
	Cross Roads of 23rd cross		1	20.00	3.50	0.125	8.75		
			1	20.00	3.50	0.125	8.75		
			1	20.00	3.00	0.125	7.50		
			1	20.00	3.50	0.125	8.75		
					Total Qty		**33.75**	6901.94	**232940.33**
	Basic Rate	5866.00							
	AD-HOC 11%	645.26							
	Sub-Total	6511.26							
	Area Weightage @ 6%	390.68							
	Total	**6901.94**							
	Vaccum De-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator HOM of machinery Screed Vibratiry, Power Floater, blade and disc etc., with all lead and lift (P.177/ I.22.7)								
		Sqm							
	Cross Roads of 23rd cross		1	20.00	3.50		70.00		
			1	20.00	3.50		70.00		
			1	20.00	3.00		60.00		
			1	20.00	3.50		70.00		
							270.00	105.89	**28591.38**
	Basic Rate	90.00							
	AD-HOC 11%	9.90							
	Sub-Total	99.90							
	Area Weightage @ 6%	5.99							
	Total	**105.89**							

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
9	Providing Groove cutting for width of 5mm to 10mm and depth 80mm-100mm including cost of cutting machine generator and HOM of machinery including cost of blade, coolant etc., including cleaning aof groove & providing sand and hot bitumen fillars and filler metal etc.,including cost of conveyance of all materials, labour,lead and lift charges and all the other incidental charges as per drawing and as per specifications, MORTH specification. (P.178/ I.22.8)								
		m		avg					
			8	3.50			28.00		
	Basic Rate	115.00					**28.00**	135.31	**3788.65**
	AD-HOC 11%	12.65							
	Sub-Total	127.65							
	Area Weightage @ 6%	7.66							
	Total	**135.31**							
10	Providing and fixing **RCC precast Slabs of 0.10 m thick of CC 1:2:4 with 20 mm** and down size graded granite metal , machine mixed , including cost of all material , labour , HOM of Machinery , curing complete								
		Sqm							
	for drain covering slab		1	63 ~~67.00~~	0.75		47.25 ~~50.25~~		99,225
	Data Rate	**2100.00**			*Total Qty*		~~**50.25**~~	2100.00	**105525.00**
11	Miscellaneous and unforeseen charges	LS					47.25		
									291.00
							Grand Total Amount		**1005245.00**

(Rupees Ten Lakhs Only)

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ERTIFICATE

) The site has been inspected and the work is found to be necessary.
The rates adopted are as per PW,P IWTD SR of 2016-17 and data rate of Bangalore Circle.
) The provisions were made in this estimate are necessary and adequate.
The area comes under the Bruhat Bengaluru Mahanagara Palike Limits.
This work is not repeated in any other programs or Grants

Assistant Engineer
Ward No.01

Executive Engineer
Yelahanka Division
B.B.M.P

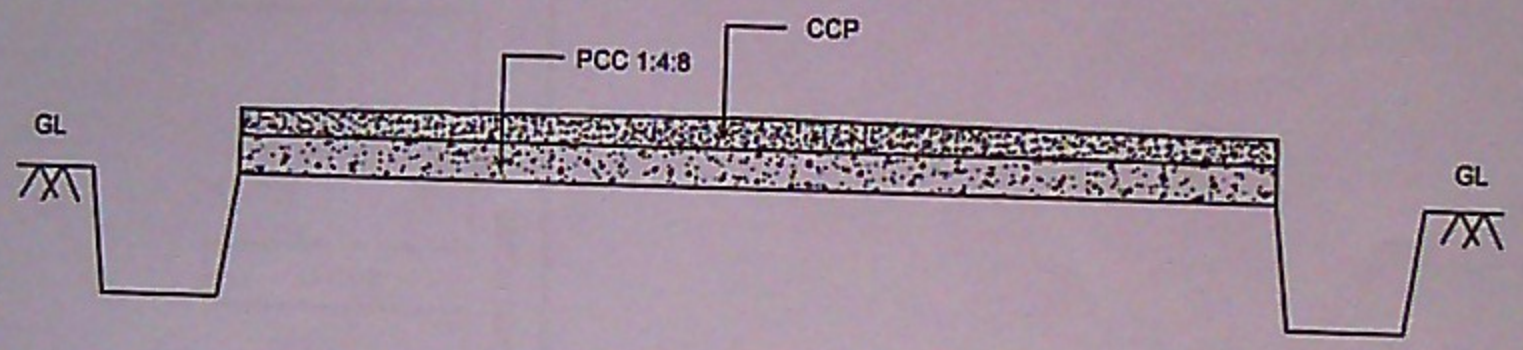
Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P

Administrative Sanction for Rs 10.00 lacs
Ten lacs only 2017
is accorded under head P.1771-
2017-18
Registered as CE No
to conditions contained in enclosed memo
No CE/SE/1/17-18 Dr.

Executive Engineer

TECHNICALLY APPROVED FOR Rs. 10.00 lacs
Ten lacs only 2017
Under P.1771-2017-18
Registered as CE( ) No
CE/TS/ 117-18
Rs 10.00 lacs

NAME OF WORK : IMPROVEMENTS TO ROADS AND DRAINS AT MARUTHINAGARA 23rd CROSS ROADS AND SURROUNDING AREAS IN WARD NO.0 OF YELAHANKA SUB DIVISION

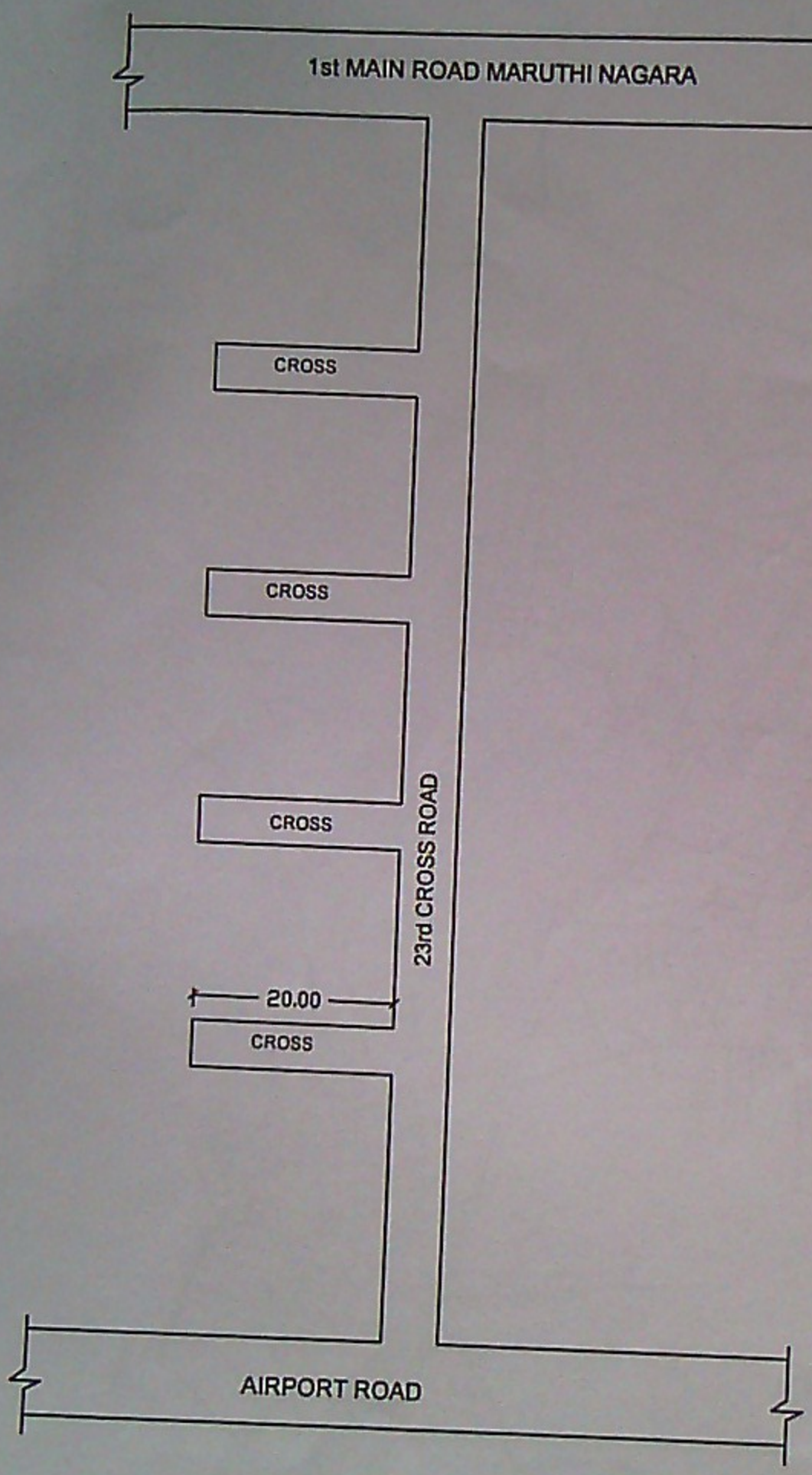


TYPICAL CROSS SECTION OF CC ROAD

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

AME OF WORK: IMPROVEMENTS TO ROADS AND DRAINS AT MARUTHINAGARA 23rd CROSS ROADS AND SURROUNDING AREAS IN WARD NO.01 OF YELAHANKA SUB DIVISION

KEY : NOT TO SCALE



INDEX

□ – CC ROAD

Assistant Engineer
Ward No.01
B.B.M.P

Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P

YELAHANKA ZONE
WARD 1-KEMPEGOWDA WARD

AREA: 10.7 Sq Km

No of Properties : 7394	
Apartment	1
Commercial	240
Educational Institutions	19
Govt Office	11
Industrial	3
Open Space	3807
Park	1
Residential Commercial	1548
Residential	3870
Under Construction	111
Vacant Site	1394
Others	49
No of Roads : 536	
Intermediate Road	34
Major Road	5
Minor Road	501
Total Length of Roads (In Meters)-88054.0	
Intermediate Road	21417.00
Major Road	11411.00
Minor Road	75226.00

Legend

- Major Road
- Intermediate Road
- Minor Road

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore